

# ENGINEERING CHANGE NOTICE

## DART AEROSPACE LTD

Date: 09.01.20	Job No.: 00569	ADR Yes/No: Y	ADR Date: 09.01.27	ECN #: 09- 512
Product No.: D412-630		Created By: AJS	Approved By: <i>[Signature]</i>	
Product Name:		Checked By: <i>[Signature]</i>	General Manager Approval:	

Distribution	Reqd	Resp	Initial / Date
Production Manager	Y	LL	<i>LL 09.01.27</i>
Production Engineering Coord	Y	EC/DD	<i>EC/DD 09.01.27</i>
Production Document Control	Y	JLD	<i>JLD 09.01.27</i>
Customer Technical Support	Y	DSTOW	<i>DSTOW 09.01.27</i>

Distribution	Reqd	Resp	Initial / Date
DQA / QA Coord			
QC Coordinator			
Marketing	Y	SW	<i>SW 09.01.28</i>
Customer Order Processing			

**Reason for Change:** Prevent Cracking in the -041/-042 Installations

**Documents Affected:**  
 IIN-D412-630 Rev. M  
 ICA-D412-591 Rev. 4  
 D2795 Rev B  
 D2812 Rev B

PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3					

#	Engineering Actions	Reqd	Resp	Notes	Complete
4	Required Documents/Drawings Under Review	N		(SUPERCEDE)	
5	Update Product Compatability Matrix	N			
6	Create Eurocopter Form (FEE)	N			
7	Notify TC / FAA of Change	N			

#	Document Control Actions	Reqd	Resp	Notes	Complete
8	Move Electronic Files	Y	KJ		<i>09.01.27</i>
9	Update Blue/Pink/DSI Folder and Electronic Files	Y	KJ		<i>09.01.27</i>
10	Update Controlled PDF Files	Y	KJ		<i>09.01.28</i>
11	Update Master Document List (MDL)	Y	AJS		<i>09.01.27</i>
12	Update Document Record (DR)	Y	KJ	<i>Rev Q</i>	<i>09.01.27</i>
13	Update Product Development Summary	N			
14	Update QSI 021 and/or STC Approval List	N			
15	Update Parts / STC Database	Y	KJ	D2795-3/-4, D2812-043/-044	<i>09.01.27</i>
16	Update / Verify ARC Database	N			
17	Create / Update Change Record Form	Y	KJ	ROLL CHANGE NUMBER FOR -011 & -012 TO CHG 007	<i>09.01.27</i>
18	Create / Update PPP's	Y	KJ		<i>09.01.27</i>
19	Update Document Control Database / Laminated Dwgs	N			
20	Update Grey Project Binder	Y	KJ		<i>09.01.27</i>
21	Update D-Part/M-Drawing/DSI/DEO Master Binders	Y	KJ		<i>09.01.27</i>
22					
23					

**Description / Action:**  
 RELEASE IIN-D412-630 Rev. M, ICA-D412-591 Rev. 4, D2795 Rev B & D2812 Rev B.  
 D2812-041 & -042 were welded to be replaced by -043 & -044 riveted assemblies (See Attached ADR).  
 All existing Kits must comply Scap any existing D2812-041 & 042 Scrap any existing D2795 -041 , -042, -1 & -2.  
 NOTE: Change DSI 9386 & 9353 to "ON REQUEST ONLY".

ECN Verified & Complete: *[Signature]*

Date: 09/02/12

**AMENDMENT DESIGN REVIEW (ADR)**Part/Installation No.: D2812 Rev: B Design Review No.: 1 Date: 09.01.14Project Number: D412-630 Project Description/Title: Heli Access Step

Eng. Project Manager: \_\_\_\_\_

Persons Present	Title	Initial
Mike Petsche	Design Manager	<i>MW</i>
Alan Stocker	Engineering Project Manager	<i>MS</i>
David Shepherd	Chief Engineer (DE #02)	<i>DS</i>
	Manufacturing Manager	
	Quality Manager	
Peter Hum	Mechanical Designer	<i>PH</i>

**Comments**

D2812-041/-042 Step Assemblies have been redesigned to address concerns over potential cracking where the D2812-1 Step and D2795-X arms are welded together.

This concern was addressed by riveting the arms to steps using D3730-1 & D3741-1 Angle brackets and a combination of solid rivets and blind rivets. This required the creation of new: D2812-043/-044 Step Assemblies D2795-3/-4 Arms and the D2795-043/-044 Arm Assemblies. This resulted in a net ~ 0.47 lbs increase in weight per step.

The D2795-3/-4 arms are similar to the D2795-1/-2 arms they are slightly larger to accommodate the rivets.

Both the IIN-D412-630 & ICA-D412-630 were pictorially updated to show the new step assembly however it should be noted that the new D2812-043/-044 are backwards compatible onto existing installations.

Key Tasks (Check or N/A)	Check	Responsible	Completion Date
Review Outstanding TSR/NCR/CAR/PAR	Y	AJS	
Fill out Criteria/Constraints Form – Inputs	N		
Fill out Project Evaluation Form	N		
D-Part creation/revision	Y	AJS	
Get Manufacturing Input	Y	AJS	
First Article Inspection	N		
Fit and Function Test	N		
Structural Test	N		
Reports (Compliance, Loads, Stress, Conformity, DSI)	N		
Check Drawings against all QSIs	Y	AJS	
Review Criteria/Constraints Form	N		
Revision to existing approval	N		
Close Amendment Project	Y	AJS	

**Conclusion:**

Proceed with revision to D2812, D2795, D412-630 & ICA- D412-630 Per ECN